

WHY DO WE CARE?

- Water may be our next "limiting factor"
- Drought is always a reality for California
- 18% of CA's energy use is for water, so water is tied to global warming and peak oil
- 60% of our fresh water goes to landscaping, lawns being the largest part of that

BASICS Lawn reduction or replacement Resilient, living soil Appropriate plants Separate hydrozones Irrigation types & timing Mulch

ADVANCED Rainwater harvesting Swales Pervious surfaces Graywater irrigation





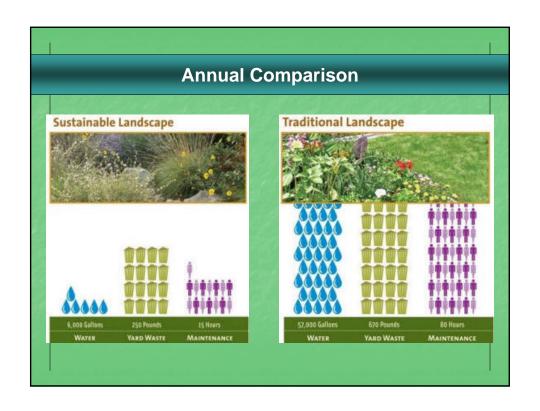


California Natives compared to Conventional:

- 1/10 of the water
- 1/4 of the maintenance labor
- 3/5 of the green waste
- Increased habitat
- Lowered pollution

To view online:

http://www.smgov.net/Departments/OSE/Categories/Landscape/Demonstration_Gardens.aspx



LAWNS

- Turf is the largest water user
- Reduce size to what you really use
- Rebates available (up to \$3000) with a Water Wise House Call - free water assessment - www.valleywater.org
- Replace with ground covers, herbal lawns, meadows, paths, low shrubs, etc.
- EarthCare's low cost lawn replacement: www.naturalfrontyards.com

LAWN CARE

- Increase watering intervals
- Monitor controller often (or get ET "smart" controller)
- Fix leaks, check for overspray
- Mow high
- Use organic fertilizers and topdress with compost annually (slower, healthier)
- Grass-cycle
- Spray with compost tea for deep roots



Lawn alternative: Carex pansa

Design: Agi Kehoe

Installation: EarthCare Landscaping



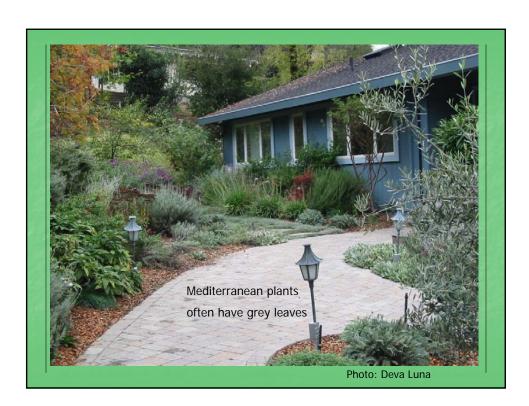


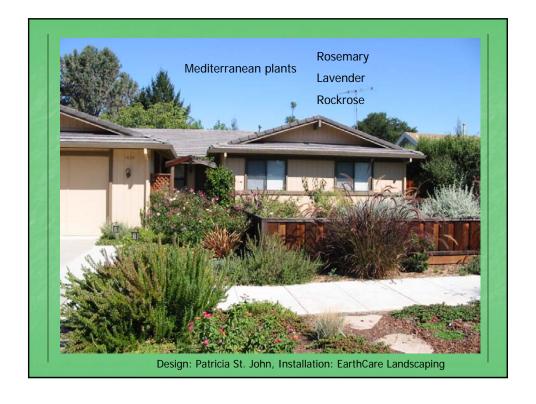


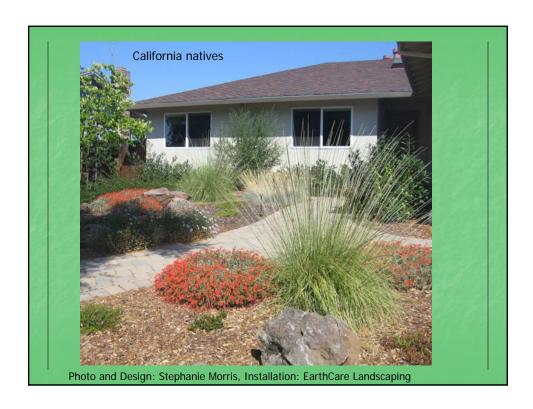
THE RIGHT PLANTS

Drought tolerant plants use different strategies

- grey or fuzzy leaves (lavender, lamb's ear)
- waxy or fleshy water-holding leaves (succulents)
- bulbs for storage underground (iris)
- deep rooting (manzanita, persimmon)
- dormancy (buckeye, monkeyflower)







HYDROZONE

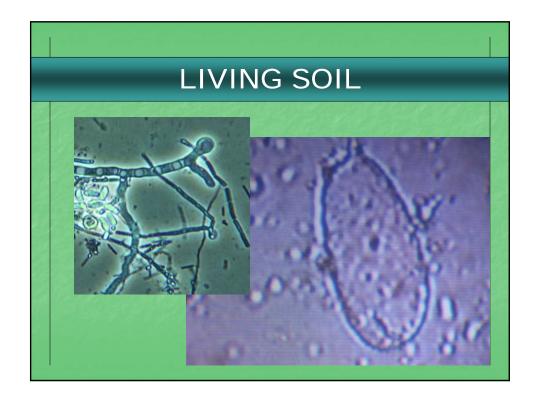
Separate plants by water requirements – "Like with like"

- Keep lush, high-maintenance, water-lovers in small areas close to the house
- Plants that can transition away from artificial irrigation
- Turf on separate valve
- Fruit trees on separate valve

RESILIENT SOIL

A biologically alive soil holds water well

- Add organic matter (compost)
- AACT (Actively Aerated Compost Tea) purchase at Lyngso Garden Materials
- Don't compact (no digging when soggy)
- Don't poison the Soil Foodweb with pesticides, herbicides, or chemical fertilizers
- Protect the soil with organic mulch



WATERING

After plants are established:

- Water <u>infrequently but deeply</u>
- Allow soil surface to dry out (check!)
- Increase the intervals between watering
- Hand watering is okay
- Don't use the % feature on the timer

DRIP VS. SPRAY

- Drip is measured in gallons per HOUR
- Spray is measured in gallons per MINUTE
- Therefore drip needs to be on LONGER, but less often
- Never put drip and spray on the same line



Also called "ET" (evapotranspiration) or weather- based controllers

- Connected to a satellite, receives local weather updates and automatically adjusts
- Monthly fee
- Rebates from SCV Water District
- Many brands



MULCH

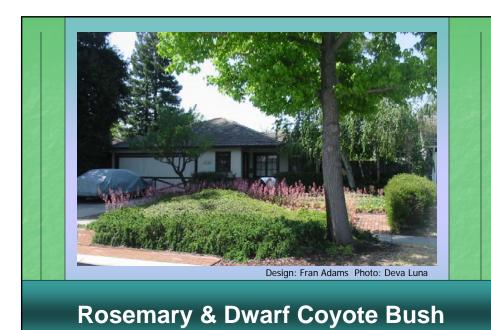
- Wood chips, not plastic
- Protects the soil from drying out
- Decomposes and improves soil
- Vibrant biology just underneath
- Suppress weeds
- Can get free "arbor chips"

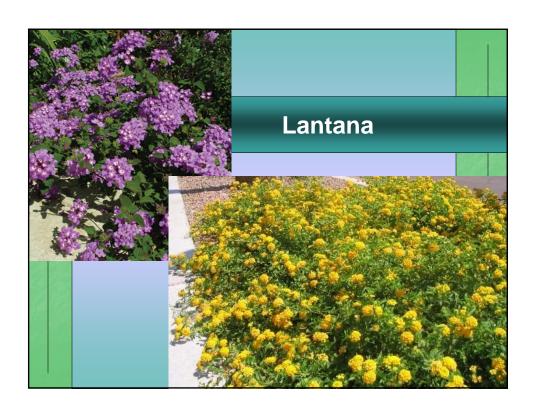




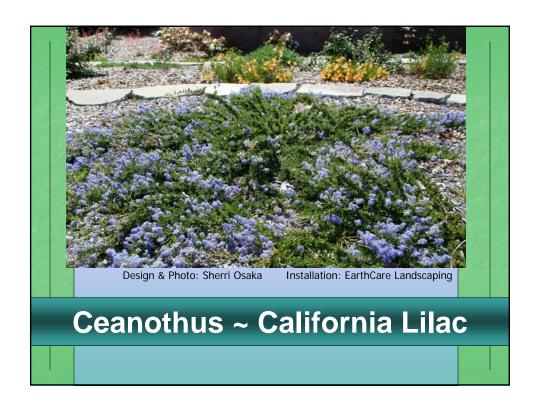
colors of mulch

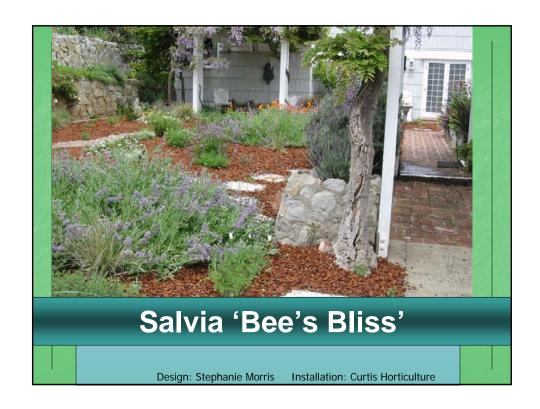
A few favorite spreading drought tolerant GROUND COVERS











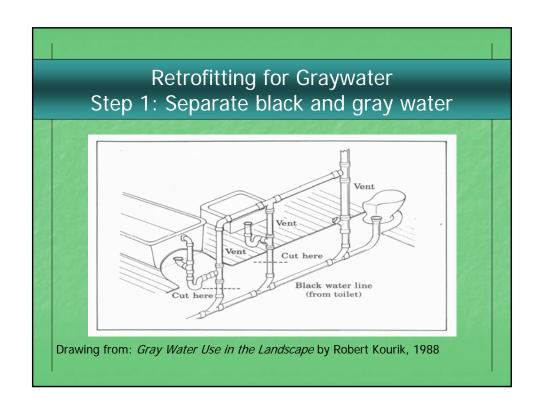
KEEP YOUR WATER ON SITE

- Downspouts to drywells, dry creeks or rain barrels
- Swales (contour lines of slopes)
- Pervious surfaces no run-off



GRAYWATER Laundry to Landscape







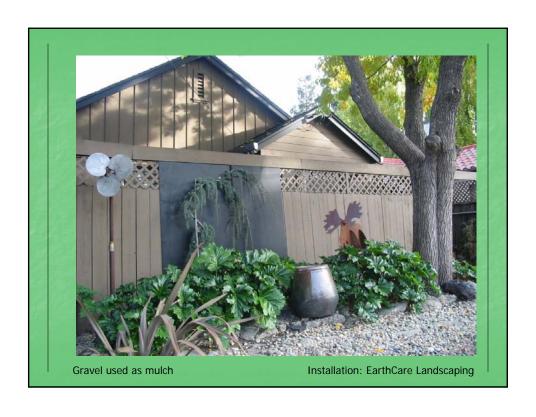
















RESOURCES

www.naturalfrontyards.com

EarthCare's low-cost front lawn replacement

www.goingnativegardentour.org

Going Native Garden Tour – April 18, 2010

<u>www.cnps.org</u>

California Native Plant Society

www.yerbabuenanursery.com

Yerba Buena Demonstration Garden

www.cngf.org

California Native Garden Foundation

www.landscapestandards.com

A wiki site for Sustainable Landscaping with lists of professionals and pictures

